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19.			20.		IS CHEC	KED	_ SEE AD	DENDUM 23.		24.		
ITEM NO.		SCHEDUL	E OF SUPPLIES/SI	ERVICES		QUANTITY		UNIT PRICE		AMOUNT		
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001	Brand-Name or equal to: Engineered Arts Lim RoboThespian. 5'9" Life-Like robot per the attached specifications.				nited	1	EA					
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(Use Reverse and/or Attach Additional Sheets as Necessary)  25. ACCOUNTING AND APPROPRIATION DATA							<u> </u>	26. TOTAL AWARD AMO	UNT (For G	ovt. Use Only)		
	TATION INCORPORATES						HED.	ADDENDA NDA	IX ARE □ ARE	ARE NOT ATTACHED.		
: 27b. CONTE	RACT/PURCHASE ORDE	R INCORPORATE:	S BY REFERENC	27b. CONTRACT/PURCHASE ORDER INCORPORATES BY REFERENCE FAR 52.212-4, FAR 52.21  28. CONTRACTOR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN COPIES TO ISSUING OFFICE. CONTRACTOR AGREES TO FURNISH AND DELIVER ALL ITEMS SET FORTH OR OTHERWISE IDENTIFIED ABOVE AND ON ANY ADDITIONAL SHEETS SUBJECT TO THE TERMS AND CONDITIONS SPECIFIED HEREIN.  309. SIGNATURE OF OFFEROR/CONTRACTOR						ARE NOT ATTACHED		
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19. ITEM NO.	*****	20. SCHEDULE OF SUPPLIE	S/SERVICES			21. QUANTITY	22. UNIT	23. UNIT PI	RICE	24. AMOUNT	
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32b. SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE 32c. DATE					32d. PRIN	32d. PRINTED NAME AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE					
					32f. TELEF	32f. TELEPHONE NUMBER OF AUTHORIZED GOVERNMENT REPRESENTATIVE					
					32g. E-MA	32g. E-MAIL OF AUTHORIZED GOVERNMENT REPRESENTATIVE					
		34. VOUCHER NUMBER	35. AMOUNT VERIFIED CORRECT FOR		36. PAYM	PAYMENT 37. CHECK NUMBER					
				COM	COMPLETE PARTIAL FINAL						
38. S/R ACCOU	NT NUMBER	39. S/R VOUCHER NUMBER	40, PAID B	Y							
41a. I CERTIFY	THIS ACCOUNT IS	CORRECT AND PROPER FOR PA	-		42a. RE	CEIVED BY	(Print	)			
41b. SIGNATURE AND TITLE OF CERTIFYING OFFICER 41c. DATE					42b. RE	ECEIVED A'I	^ (Loce	ation)			
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#### TERMS AND CONDITIONS OF ORDER

### ADDENDUM TO 52.212-4, CONTRACT TERMS AND CONDITIONS - COMMERCIAL ITEMS

52.212-4 Contract Terms and Conditions - Commercial Items. (JUN 2010)

52.219-28 Post-Award Small Business Program Rerepresentation. (APR 2009)

52.247-34 F.o.b. Destination. (NOV 1991)

52.252-2 Clauses Incorporated by Reference. (FEB 1998)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es): Federal Acquisition Regulation (FAR) clauses:

http://www.acqnet.gov/far/

NASA FAR Supplement (NFS) clauses:

http://www.hq.nasa.gov/office/procurement/regs/nfstoc.htm

(End of clause)

#### 1852.215-84 Ombudsman. (OCT 2003)

- (a) An ombudsman has been appointed to hear and facilitate the resolution of concerns from offerors, potential offerors, and contractors during the preaward and postaward phases of this acquisition. When requested, the ombudsman will maintain strict confidentiality as to the source of the concern. The existence of the ombudsman is not to diminish the authority of the contracting officer, the Source Evaluation Board, or the selection official. Further, the ombudsman does not participate in the evaluation of proposals, the source selection process, or the adjudication of formal contract disputes. Therefore, before consulting with an ombudsman, interested parties must first address their concerns, issues, disagreements, and/or recommendations to the contracting officer for resolution.
- (b) If resolution cannot be made by the contracting officer, interested parties may contact the installation ombudsman, James E. Hattaway, Jr.

Mail Code: AA-B

Kennedy Space Center, FL 32899

321-867-7246

James.e.hattaway@nasa.gov

. Concerns, issues, disagreements, and recommendations which cannot be resolved at the installation may be referred to the NASA ombudsman, the Director of the Contract Management Division, at 202-358-0445, facsimile 202-358-3083, e-mail james.a.balinskas@nasa.gov. Please do not contact the ombudsman to request copies of the solicitation, verify offer due date, or clarify technical requirements. Such inquiries shall be directed to the Contracting Officer or as specified elsewhere in this document.

(End of clause)

#### 1852.223-72 Safety and Health (Short Form). (APR 2002)

- (a) Safety is the freedom from those conditions that can cause death, injury, occupational illness; damage to or loss of equipment or property, or damage to the environment. NASA's safety priority is to protect: (1) the public, (2) astronauts and pilots, (3) the NASA workforce (including contractor employees working on NASA contracts), and (4) high-value equipment and property.
- (b) The Contractor shall take all reasonable safety and occupational health measures consistent with standard industry practice in performing this contract. The Contractor shall comply with all Federal, State, and local laws applicable to safety and occupational health and with the safety and occupational health standards, specifications, reporting requirements, and any other relevant requirements of this contract.
- (c) The Contractor shall take, or cause to be taken, any other safety, and occupational health measures the Contracting Officer may reasonably direct. To the extent that the Contractor may be entitled to an equitable adjustment for those measures under the terms and conditions of this contract, the equitable adjustment shall be determined pursuant to the procedures of the Changes clause of this contract; provided, that no adjustment shall be made under this Safety and Health clause for any change for which an equitable adjustment is expressly provided under any other clause of the contract.
- (d) The Contracting Officer may notify the Contractor in writing of any noncompliance with this clause and specify corrective actions to be taken. In situations where the Contracting Officer becomes aware of noncompliance that may pose a serious or imminent danger to safety and health of the public, astronauts and pilots, the NASA workforce (including Contractor employees working on NASA contracts), or high value mission critical equipment or property, the Contracting Officer shall notify the Contractor orally, with written confirmation. The Contractor shall promptly take and report any necessary corrective action. The Government may pursue appropriate remedies in the event the Contractor fails to promptly take the necessary corrective action.
- (e) The Contractor (or subcontractor or supplier) shall insert the substance of this clause, including this paragraph (e) and any applicable Schedule provisions, with appropriate changes of designations of the parties, in subcontracts of every tier that exceed the micro-purchase threshold.

(End of clause)

## 1852.225-70 Export Licenses. (FEB 2000)

- (a) The Contractor shall comply with all U.S. export control laws and regulations, including the International Traffic in Arms Regulations (ITAR), 22 CFR Parts 120 through 130, and the Export Administration Regulations (EAR), 15 CFR Parts 730 through 799, in the performance of this contract. In the absence of available license exemptions/exceptions, the Contractor shall be responsible for obtaining the appropriate licenses or other approvals, if required, for exports of hardware, technical data, and software, or for the provision of technical assistance.
- (b) The Contractor shall be responsible for obtaining export licenses, if required, before utilizing foreign persons in the performance of this contract, including instances where the work is to be performed on-site at KSC, where the foreign person will have access to export-controlled technical data or software.
- (c) The Contractor shall be responsible for all regulatory record keeping requirements associated with the use of licenses and license exemptions/exceptions.
- (d) The Contractor shall be responsible for ensuring that the provisions of this clause apply to its subcontractors.

(End of clause)

#### 1852.237-73 Release of Sensitive Information. (JUN 2005)

- (a) As used in this clause, "Sensitive information" refers to information, not currently in the public domain, that the Contractor has developed at private expense, that may embody trade secrets or commercial or financial information, and that may be sensitive or privileged.
- (b) In accomplishing management activities and administrative functions, NASA relies heavily on the support of various service providers. To support NASA activities and functions, these service providers, as well as their subcontractors and their individual employees, may need access to sensitive information submitted by the Contractor under this contract. By submitting this proposal or performing this contract, the Contractor agrees that NASA may release to its service providers, their subcontractors, and their individual employees, sensitive information submitted during the course of this procurement, subject to the enumerated protections mandated by the clause at 1852.237-72, Access to Sensitive Information.
- (c) (1) The Contractor shall identify any sensitive information submitted in support of this proposal or in performing this contract. For purposes of identifying sensitive information, the Contractor may, in addition to any other notice or legend otherwise required, use a notice similar to the following:

Mark the title page with the following legend:

This proposal or document includes sensitive information that NASA shall not disclose outside the Agency and its service providers that support management activities and administrative functions. To gain access to this sensitive information, a service provider's contract must contain the clause at NFS 1852.237-72, Access to Sensitive Information. Consistent with this clause, the service provider shall not duplicate, use, or disclose the information in whole or in part for any purpose other than to perform the services specified in its contract. This restriction does not limit the Government's right to use this information if it is obtained from another source without restriction. The information subject to this restriction is contained in pages [insert page numbers or other identification of pages]. Mark each page of sensitive information the Contractor wishes to restrict with the following legend:

Use or disclosure of sensitive information contained on this page is subject to the restriction on the title page of this proposal or document.

- (2) The Contracting Officer shall evaluate the facts supporting any claim that particular information is "sensitive." This evaluation shall consider the time and resources necessary to protect the information in accordance with the detailed safeguards mandated by the clause at 1852.237-72, Access to Sensitive Information. However, unless the Contracting Officer decides, with the advice of Center counsel, that reasonable grounds exist to challenge the Contractor's claim that particular information is sensitive, NASA and its service providers and their employees shall comply with all of the safeguards contained in paragraph (d) of this clause.
- (d) To receive access to sensitive information needed to assist NASA in accomplishing management activities and administrative functions, the service provider must be operating under a contract that contains the clause at 1852.237-72, Access to Sensitive Information. This clause obligates the service provider to do the following:
  - (1) Comply with all specified procedures and obligations, including the Organizational Conflicts of Interest Avoidance Plan, which the contract has incorporated as a compliance document.

- (2) Utilize any sensitive information coming into its possession only for the purpose of performing the services specified in its contract.
- (3) Safeguard sensitive information coming into its possession from unauthorized use and disclosure.
- (4) Allow access to sensitive information only to those employees that need it to perform services under its contract.
- (5) Preclude access and disclosure of sensitive information to persons and entities outside of the service provider's organization.
- (6) Train employees who may require access to sensitive information about their obligations to utilize it only to perform the services specified in its contract and to safeguard it from unauthorized use and disclosure.
- (7) Obtain a written affirmation from each employee that he/she has received and will comply with training on the authorized uses and mandatory protections of sensitive information needed in performing this contract.
- (8) Administer a monitoring process to ensure that employees comply with all reasonable security procedures, report any breaches to the Contracting Officer, and implement any necessary corrective actions.
- (e) When the service provider will have primary responsibility for operating an information technology system for NASA that contains sensitive information, the service provider's contract shall include the clause at 1852.204-76, Security Requirements for Unclassified Information Technology Resources. The Security Requirements clause requires the service provider to implement an Information Technology Security Plan to protect information processed, stored, or transmitted from unauthorized access, alteration, disclosure, or use. Service provider personnel requiring privileged access or limited privileged access to these information technology systems are subject to screening using the standard National Agency Check (NAC) forms appropriate to the level of risk for adverse impact to NASA missions. The Contracting Officer may allow the service provider to conduct its own screening, provided the service provider employs substantially equivalent screening procedures.
- (f) This clause does not affect NASA's responsibilities under the Freedom of Information Act.
- (g) The Contractor shall insert this clause, including this paragraph (g), suitably modified to reflect the relationship of the parties, in all subcontracts that may require the furnishing of sensitive information.

(End of clause)

#### **52.212-5 ATTACHMENT**

# 52.212-5 Contract Terms and Conditions Required to Implement Statutes or Executive Orders-Commercial Items. (JUN 2010)

- (a) The Contractor shall comply with the following Federal Acquisition Regulation (FAR) clauses, which are incorporated in this contract by reference, to implement provisions of law or Executive orders applicable to acquisitions of commercial items:
  - (1) 52.222-50, Combating Trafficking in Persons (FEB 2009) (22 U.S.C. 7104(g)).

- [] Alternate I (Aug 2007) of 52.222-50 (22 U.S.C. 7104(g)).
- (2) 52.233-3, Protest After Award (AUG 1996) (31 U.S.C. 3553).
- (3) 52.233-4, Applicable Law for Breach of Contract Claim (OCT 2004) (Pub. L. 108-77, 108-78).
- (b) The Contractor shall comply with the FAR clauses in this paragraph (b) that the Contracting Officer has indicated as being incorporated in this contract by reference to implement provisions of law or Executive orders applicable to acquisitions of commercial items: Contracting Officer check as appropriate.
  - [](1) 52.203-6, Restrictions on Subcontractor Sales to the Government (SEP 2006), with Alternate I (OCT 1995) (41 U.S.C. 253g and 10 U.S.C. 2402).
  - [](2) 52:203-13, Contractor Code of Business Ethics and Conduct (APR 2010)(Pub. L. 110-252, Title VI, Chapter 1 (41 U.S.C. 251 note)).
  - [](3) 52.203-15, Whistleblower Protections under the American Recovery and Reinvestment Act of 2009 (JUN 2010) (Section 1553 of Pub. L. 111-5). (Applies to contracts funded by the American Recovery and Reinvestment Act of 2009.)
  - [](4) 52.204-11, American Recovery and Reinvestment Act--Reporting Requirements (MAR 2009) (Pub. L. 111-5).
  - [](5) 52.219-3, Notice of Total HUBZone Set-Aside (JAN 1999) (15 U.S.C. 657a).
  - [](6) 52.219-4, Notice of Price Evaluation Preference for HUBZone Small Business Concerns (JUL 2005) (if the offeror elects to waive the preference, it shall so indicate in its offer) (15 U.S.C. 657a).
  - [](7) Reserved.
  - [](8)(i) 52.219-6, Notice of Total Small Business Set-Aside (JUN 2003) (15 U.S.C. 644).
    - [](ii) Alternate I (OCT 1995) of 52.219-6.
    - [] (iii) Alternate II (MAR 2004) of 52.219-6.
  - [](9)(i) 52.219-7, Notice of Partial Small Business Set-Aside (JUN 2003) (15 U.S.C. 644).
    - [](ii) Alternate I (OCT 1995) of 52.219-7.
    - [] (iii) Alternate II (MAR 2004) of 52.219-7.
  - [](10) 52.219-8, Utilization of Small Business Concerns (MAY 2004) (15 U.S.C. 637 (d)(2) and (3)).
  - [](11)(i) 52.219-9, Small Business Subcontracting Plan (APR 2008) (15 U.S.C. 637(d)(4).
    - [](ii) Alternate I (OCT 2001) of 52.219-9.
    - [](iii) Alternate II (OCT 2001) of 52.219-9.

- [](12) 52.219-14, Limitations on Subcontracting (DEC 1996) (15 U.S.C. 637(a)(14)).
- [](13) 52.219-16, Liquidated Damages--Subcontracting Plan (JAN 1999) (15 U.S.C. 637(d)(4)(F)(i)).
- [](14)(i) 52.219-23, Notice of Price Evaluation Adjustment for Small Disadvantaged Business Concerns (OCT 2008) (10 U.S.C. 2323)(if the offeror elects to waive the adjustment, it shall so indicate in its offer.)
  - [](ii) Alternate I (JUN 2003) of 52.219-23.
- [](15) 52.219-25, Small Disadvantaged Business Participation Program--Disadvantaged Status and Reporting (APR 2008) (Pub. L. 103-355, section 7102, and 10 U.S.C. 2323).
- [](16) 52.219-26, Small Disadvantaged Business Participation Program--Incentive Subcontracting (OCT 2000) (Pub. L. 103-355, section 7102, and 10 U.S.C. 2323).
- [](17) 52.219-27, Notice of Total Service-Disabled Veteran-Owned Small Business Set-Aside (May 2004)(15 U.S.C. 657 f).
- [](18) 52.219-28, Post Award Small Business Program Rerepresentation (APR 2009) (15 U.S.C. 632(a)(2)).
- X(19) 52.222-3, Convict Labor (JUN 2003) (E.O. 11755).
- X(20) 52.222-19, Child Labor--Cooperation with Authorities and Remedies (AUG 2009) (E.O. 13126).
- X(21) 52.222-21, Prohibition of Segregated Facilities (FEB 1999).
- X(22) 52.222-26, Equal Opportunity (MAR 2007) (E.O. 11246).
- X(23) 52.222-35, Equal Opportunity for Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (SEP 2006) (38 U.S.C. 4212).
- X(24) 52.222-36, Affirmative Action for Workers with Disabilities (JUN 1998) (29 U.S.C. 793).
- [](25) 52.222-37, Employment Reports on Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (SEP 2006) (38 U.S.C. 4212).
- [](26) 52.222-54, Employment Eligibility Verification (Jan 2009). (Executive Order 12989). (Not applicable to the acquisition of commercially available off-the-shelf items or certain other types of commercial items as prescribed in 22.1803.)
- [](27)(i) 52.223-9, Estimate of Percentage of Recovered Material Content for EPA-Designated Items (May 2008) (42 U.S.C. 6962(c)(3)(A)(ii)). (Not applicable to the acquisition of commercially available off-the-shelf items.)
  - [](ii) Alternate I (May 2008) of 52.223-9 (42 U.S.C. 6962(i)(2)(C)). (Not applicable to the acquisition of commercially available off-the-shelf items.)
- [ ](28) 52.223-15, Energy Efficiency in Energy-Consuming Products (DEC 2007) (42 U.S.C. 8259b).

- [](29)(i) 52.223-16, IEEE 1680 Standard for the Environmental Assessment of Personal Computer Products (DEC 2007) (E.O. 13423).
  - [](ii) Alternate I (DEC 2007) of 52.223-16.
- X(30) 52.225-1, Buy American Act Supplies (FEB 2009) (41 U.S.C. 10a-10d).
- [](31)(i) 52.225-3, Buy American Act--Free Trade Agreements--Israeli Trade Act (JUN 2009) (41 U.S.C. 10a-10d, 19 U.S.C. 3301 note, 19 U.S.C. 2112 note, 19 U.S.C. 3805 note, Pub. L. 108-77, 108-78, 108-286, 108-302, 109-53, 109-169, 109-283, and 110-138).
  - [](ii) Alternate I (JAN 2004) of 52.225-3.
  - [](iii) Alternate II (JAN 2004) of 52.225-3.
- [](32) 52.225-5, Trade Agreements (AUG 2009) (19 U.S.C. 2501, et seq., 19 U.S.C. 3301 note).
- [](33) 52.225-13, Restrictions on Certain Foreign Purchases (JUN 2008) (E.O.'s, proclamations, and statutes administered by the Office of Foreign Assets Control of the Department of the Treasury).
- [](34) 52.226-4, Notice of Disaster or Emergency Area Set-Aside (Nov 2007) (42 U.S.C. 5150).
- [](35) 52.226-5, Restrictions on Subcontracting Outside Disaster or Emergency Area (Nov 2007) (42 U.S.C. 5150).
- [](36) 52.232-29, Terms for Financing of Purchases of Commercial Items (FEB 2002) (41 U.S.C. 255(f), 10 U.S.C. 2307(f)).
- [](37) 52.232-30, Installment Payments for Commercial Items (OCT 1995) (41 U.S.C. 255(f), 10 U.S.C. 2307(f)).
- X(38) 52.232-33, Payment by Electronic Funds Transfer Central Contractor Registration (OCT 2003) (31 U.S.C. 3332).
- [](39) 52.232-34, Payment by Electronic Funds Transfer Other than Central Contractor Registration (MAY 1999) (31 U.S.C. 3332).
- [](40) 52.232-36, Payment by Third Party (FEB 2010) (31 U.S.C. 3332).
- [](41) 52.239-1, Privacy or Security Safeguards (AUG 1996) (5 U.S.C. 552a).
- [](42)(i) 52.247-64, Preference for Privately Owned U.S.-Flag Commercial Vessels (FEB 2006) (46 U.S.C. Appx 1241(b) and 10 U.S.C. 2631).
  - [](ii) Alternate I (APR 2003) of 52.247-64.
- (c) The Contractor shall comply with the FAR clauses in this paragraph (c), applicable to commercial services, that the Contracting Officer has indicated as being incorporated in this contract by reference to implement provisions of law or Executive orders applicable to acquisitions of commercial items: (Contracting Officer check as appropriate.)
  - [](1) 52.222-41, Service Contract Act of 1965 (NOV 2007) (41 U.S.C. 351, et seq.).

- [](2) 52.222-42, Statement of Equivalent Rates for Federal Hires (MAY 1989) (29 U.S.C. 206 and 41 U.S.C. 351, et seq.).
- [](3) 52.222-43, Fair Labor Standards Act and Service Contract Act--Price Adjustment (Multiple Year and Option Contracts) (SEP 2009) (29 U.S.C. 206 and 41 U.S.C. 351, et seq.).
- [](4) 52.222-44, Fair Labor Standards Act and Service Contract Act--Price Adjustment (SEP 2009) (29 U.S.C. 206 and 41 U.S.C. 351, et seq.).
- [](5) 52.222-51, Exemption from Application of the Service Contract Act to Contracts for Maintenance, Calibration, or Repair of Certain Equipment--Requirements (NOV 2007) (41 U.S.C. 351, et seq.).
- [](6) 52.222-53, Exemption from Application of the Service Contract Act to Contracts for Certain Services--Requirements (FEB 2009) (41 U.S.C. 351, et seq.).
- [](7) 52.226-6, Promoting Excess Food Donation to Nonprofit Organizations. (MAR 2009) (Pub. L. 110-247).
- [](8) 52.237-11, Accepting and Dispensing of \$1 Coin (SEP 2008) (31 U.S.C. 5112(p)(1)).
- (d) Comptroller General Examination of Record. The Contractor shall comply with the provisions of this paragraph (d) if this contract was awarded using other than sealed bid, is in excess of the simplified acquisition threshold, and does not contain the clause at 52.215-2, Audit and Records Negotiation.
  - (1) The Comptroller General of the United States, or an authorized representative of the Comptroller General, shall have access to and right to examine any of the Contractor's directly pertinent records involving transactions related to this contract.
  - (2) The Contractor shall make available at its offices at all reasonable times the records, materials, and other evidence for examination, audit, or reproduction, until 3 years after final payment under this contract or for any shorter period specified in FAR Subpart 4.7, Contractor Records Retention, of the other clauses of this contract. If this contract is completely or partially terminated, the records relating to the work terminated shall be made available for 3 years after any resulting final termination settlement. Records relating to appeals under the disputes clause or to litigation or the settlement of claims arising under or relating to this contract shall be made available until such appeals, litigation, or claims are finally resolved.
  - (3) As used in this clause, records include books, documents, accounting procedures and practices, and other data, regardless of type and regardless of form. This does not require the Contractor to create or maintain any record that the Contractor does not maintain in the ordinary course of business or pursuant to a provision of law.
- (e)(1) Notwithstanding the requirements of the clauses in paragraphs (a), (b), (c), and (d) of this clause, the Contractor is not required to flow down any FAR clause, other than those in this paragraph (e)(1) in a subcontract for commercial items. Unless otherwise indicated below, the extent of the flow down shall be as required by the clause--
  - (i) 52.203-13, Contractor Code of Business Ethics and Conduct (APR 2010) (Pub. L. 110-252, Title VI, Chapter 1 (41 U.S.C. 251 note)).

- (ii) 52.219-8, Utilization of Small Business Concerns (MAY 2004) (15 U.S.C. 637(d)(2) and (3)), in all subcontracts that offer further subcontracting opportunities. If the subcontract (except subcontracts to small business concerns) exceeds \$550,000 (\$1,000,000 for construction of any public facility), the subcontractor must include 52.219-8 in lower tier subcontracts that offer subcontracting opportunities.
- (iii) Reserved.
- (iv) 52.222-26, Equal Opportunity (MAR 2007) (E.O. 11246).
- (v) 52.222-35, Equal Opportunity for Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (SEP 2006) (38 U.S.C. 4212).
- (vi) 52.222-36, Affirmative Action for Workers with Disabilities (JUN 1998) (29 U.S.C. 793).
- (vii) Reserved.
- (viii) 52.222-41, Service Contract Act of 1965 (NOV 2007) (41 U.S.C. 351, et seq.).
- (ix) 52.222-50, Combating Trafficking in Persons (FEB 2009) (22 U.S.C. 7104(g)).
- Alternate I (Aug 2007) of 52.222-50 (22 U.S.C. 7104(g)).
- (x) 52.222-51, Exemption from Application of the Service Contract Act to Contracts for Maintenance, Calibration, or Repair of Certain Equipment-Requirements (NOV 2007) (41 U.S.C. 351, et seq.).
- (xi) 52.222-53, Exemption from Application of the Service Contract Act to Contracts for Certain Services-Requirements (FEB 2009)(41 U.S.C. 351, et seq.).
- (xii) 52.222-54, Employment Eligibility Verification (Jan 2009).
- (xiii) 52.226-6, Promoting Excess Food Donation to Nonprofit Organizations. (MAR 2009) (Pub. L. 110-247). Flow down required in accordance with paragraph (e) of FAR clause 52.226-6.
- (xiv) 52.247-64, Preference for Privately Owned U.S.-Flag Commercial Vessels (FEB 2006) (46 U.S.C. Appx 1241(b) and 10 U.S.C. 2631). Flow down required in accordance with paragraph (d) of FAR clause 52.247-64.
- (2) While not required, the contractor may include in its subcontracts for commercial items a minimal number of additional clauses necessary to satisfy its contractual obligations.

(End of clause)

# Characteristics for Life-Like Robot

- Robot height= no taller than 5'9"
- Package shall include: animation software, virtual animation files, recovery disc or recovery USB drive, touch screen console, base, 12-month warranty, delivery, assembly, installation, and one-day user training
- Programmable performance allows tailoring demonstrations to fit the audience youth, K-12 student, teacher groups, and general public.
- Web-based controls for user customization and capability of experimental software for academic research
- Ability to see what the robot sees, make it move and tell it what to say from anywhere with a net connection
- Life-like size creates realism
- Easy to fix problems when they arise and easy to get support when needed
- Multi-lingual vocal ability (4 languages- English, Spanish, French, German) and eye movements add to life like social interaction
- Able to upload images to create emotional and controllable eye animations
- Ability to read scripts, say what is typed and access written content in all 4 languages
- Generate "lip-sync'd" mouth movement and control audio related gesturing

# Questions – Life-Like Robot RFI #: NNK10341662L

- 1. Robot height:
  - a. Robot <u>base</u> shall be no taller than 6" and weigh no more than 25 pounds.
  - b. Robot <u>body</u> shall be no taller than 5'9" and weigh no more than 75 pounds.
  - c. Robot <u>console</u> shall be no taller than 40" and weigh no more than 85 pounds.
- 2. Package shall include: animation software, virtual animation files, recovery disc or recovery USB drive, touch screen console, base, 12-month warranty, delivery, assembly, installation, and one-day user training.
  - Is the base for the console or the robot? Base is for the robot
  - Is the touch screen console for public interaction with robot, or a programming console? **Both**
  - Will the robot be in a permanent location or travel? Occasional travel
- 3. Programmable performance allows tailoring demonstrations to fit the audience youth, K-12 student, teacher groups, and general public. Is the intent to control the robot in "real-time" to switch between demonstrations or create multiple programs, which can be selected by an instructor prior to the start of the demonstration? Should be able to operate from console via programs with operator override for designated demonstrations
- 4. Web-based controls for user customization and capability of experimental software for academic research. Please elaborate on the function of the experimental software. Is it to control the figure? Survey the audience? Is collection of responses part of this scope? Any software submitted as research should be tailored to the robot's capabilities
- 5. Life-like size creates realism. Is it a realistic human figure? If so, will the features replicate those of a real person, living or historical? The size should be life-like, about 6 feet tall with proportional limbs and movements. A human representation is not required
- 6. Multi-lingual vocal ability (4 languages- English, Spanish, French, German).

  Does the robot need to understand verbal questions in all four languages? For interactive programs the robot should understand verbal prompts
- 7. Eye movements add to life like social interaction.
  - Will eyes be controlled in "real time?" <u>Eye movements should be</u> operable from the console via programs
  - Is facial recognition required? Facial recognition is not required

- 8. Able to upload images to create emotional and controllable eye animations. Please define how images are used to create eye animations. The robot should be programmable with images as part of the selectable facial characterizations
- 9. Ability to read scripts, say what is typed and access written content in all 4 languages. Generate lip-syncd mouth movement and control audio related gesturing. Will robot be required to recognize which language it is reading? Robot should utilize languages from programs, operated from the console via programs with operator override for certain demonstrations
- 10. Where do you anticipate the touch screen being located? The touch screen should be built into the console within viewing distance of the robot and robot's reaction to console selected commands
- 11. Do you anticipate the base being something other than a stand for the character?
  No not really but all suggestions will be reviewed if proposed
- 12. What other movements are required other than eyes and lips? The robot should move limbs at the joints